

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|--|---|------------------|---------|------------------|
| L1 | 3 | "5719060".pn. or "6225047".pn or "5118937".pn. | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:05 |
| L2 | 2432 | (250/282,288,423P).ccls. | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:11 |
| L3 | 0 | L1 and (high\$2 near3 (charge adj1 state\$2)) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:06 |
| L4 | 0 | L2 and ((laser adj2 (desorb\$5 or desorp\$5)) with (high\$2 near3 (charge adj1 state\$2))) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:24 |
| L5 | 2573 | (436/63,174).ccls. | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:12 |
| L6 | 4981 | L2 or L5 | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:12 |
| L7 | 610 | L6 and (laser adj2 (desorb\$5 or desorp\$5)) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:12 |
| L8 | 38 | L2 and (high\$2 near3 (charge adj1 state\$2)) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:13 |
| L9 | 422321 | L6 band (high\$2 near3 (charge adj1 state\$2)) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:13 |
| L10 | 38 | L6 and (high\$2 near3 (charge adj1 state\$2)) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:13 |
| L11 | 14 | L10 and L7 | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:18 |
| L12 | 1 | L11 and ((IR or (infra adj1 red)) with laser\$3) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:25 |
| L13 | 13 | L11 not L12 | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:18 |
| L14 | 0 | L11 and ((off adj1 resonance) with (mid adj1 (IR or (infra adj1 red)))) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:24 |
| L15 | 0 | L8 and ((off adj1 resonance) with (mid adj1 (IR or (infra adj1 red)))) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:24 |
| L16 | 0 | L7 and ((off adj1 resonance) with (mid adj1 (IR or (infra adj1 red)))) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:26 |
| L17 | 24 | ((laser adj2 (desorb\$5 or desorp\$5)) and (high\$2 near3 (charge adj1 state\$2))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:30 |
| L18 | 1 | L17 and ((IR or (infra adj1 red)) with laser\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:32 |

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|-----|-----|---|---|----|-----|------------------|
| L19 | 0 | L17 and ((off adj1 resonance) with (mid adj1 (IR or (infra adj1 red)))) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:32 |
| L20 | 1 | L17 and (off adj1 resonance) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:27 |
| L21 | 183 | (laser adj2 (desorb\$5 or desorp\$5)) and (multipl\$5 near3 charge\$2 near2 ion\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:49 |
| L22 | 33 | L21 and ((IR or (infra adj1 red)) with laser\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:33 |
| L23 | 0 | L22 and ((off adj1 resonance) with (mid adj1 (IR or (infra adj1 red)))) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:48 |
| L24 | 32 | L22 not L17 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:43 |
| L25 | 4 | "6451616".pn. or "5118937".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:43 |
| L26 | 1 | L25 and (off adj1 resonan\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:59 |
| L27 | 0 | L1 and (IR adj1 wavelength) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:54 |
| L28 | 0 | L1 and (infrared adj1 wavelength) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:48 |

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|-----|---|--|---|----|-----|------------------|
| L29 | 0 | L1 and ((infra adj1 red) near3 laser\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:58 |
| L30 | 1 | L1 and (multipl\$5 near3 charge\$2 near2 ion\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:53 |
| L31 | 0 | L1 and (((infra adj1 red) or IR) with (multipl\$5 near3 charge\$2 near2 ion\$2)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:51 |
| L32 | 4 | "5719060".pn. or "4920264".pn. or "5062935".pn. or "4988879".pn. | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:53 |
| L33 | 0 | L32 and (multipl\$5 near3 charge\$2 near2 ion\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:58 |
| L34 | 0 | L32 and ((infra adj1 red) near3 laser\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:54 |
| L35 | 0 | L32 and (IR adj1 wavelength) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:57 |
| L36 | 2 | "20030207460".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:57 |
| L37 | 1 | "20030207460".pn. | US-PGPUB; USPAT | OR | OFF | 2004/11/30 14:57 |

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| L38 | 0 | L37 and (multipl\$5 near3 charge\$2 near2 ion\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:22 |
| L39 | 0 | L37 and ((infra adj1 red) near3 (wavelength or laser\$2)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 14:59 |
| L40 | 0 | L37 and (off adj1 resonan\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 15:22 |
| L41 | 8 | L22 and (off adj1 resonan\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 15:32 |
| L42 | 1 | ("6342393".pn.) and (off adj1 resonan\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:21 |
| L43 | 0 | ("5719060".pn. or "6558902".pn.) and (off adj1 resonan\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:22 |
| L44 | 4 | ("5719060".pn. or "6558902".pn.) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:22 |
| L45 | 2 | ("5719060".pn. or "6558902".pn.) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 16:22 |
| L46 | 1 | L45 and (multipl\$5 near3 charge\$2 near2 ion\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:35 |

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| L47 | 2 | "6706530".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:35 |
| L48 | 0 | L47 and ("SEND" adj3 surface) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:35 |
| L49 | 0 | L47 and "SEND" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:41 |
| L50 | 2 | L47 and "MALDI" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:39 |
| L51 | 0 | L41 and "SEND" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:41 |
| L52 | 1 | L22 and "SEND" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 17:08 |
| L53 | 33 | L22 and (mass adj1 spectromet\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:47 |
| L54 | 2 | L47 and (mass adj1 spectromet\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:48 |

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| L55 | 17 | L22 and (tandem near3 (mass adj1 spectromet\$4)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:54 |
| L56 | 1 | L47 and (TOF) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 16:59 |
| L57 | 0 | L22 and (QqTOF) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 17:00 |
| L58 | 15 | L22 and (fragment\$5 with (mass near4 analysis)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 17:01 |
| L59 | 14 | L58 and (Dalton\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 17:02 |
| L60 | 12 | L59 and ((collision adj1 induced) near3 dissociat\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2004/11/30 17:03 |
| L61 | 1 | L22 and (SEND with SELDI) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 17:10 |
| L62 | 0 | L22 and (protein\$2 with (amino adj1 acide\$2)) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 17:12 |
| L63 | 30 | L22 and (protein\$2) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 17:11 |
| L64 | 12 | L22 and (protein\$2 with (amino adj1 acid\$2)) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 17:15 |
| L65 | 8 | L22 and ((amino adj1 acid\$2) near3 sequence) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 17:17 |
| L66 | 0 | L65 and ((calculat\$5 near3 difference\$2) with (data adj1 base)) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 17:18 |

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| L67 | 0 | L65 and (data adj1 base) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 17:18 |
| L68 | 4 | L65 and (calculat\$5 near3 difference\$2) | US-PGPUB; USPAT | OR | OFF | 2004/11/30 17:18 |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|---|------|-----|------------|--|----------------------------|----------------------|----------|
| 1 | BRS | L1 | 3 | "5719060".pn. or "6225047".pn. or "5118937".pn. | US- PGPUB ; USPAT | 2004/11/3 0 14:05 | |
| 2 | BRS | L2 | 2432 | (250/282,288,423P).cc1 s. | US- PGPUB ; USPAT | 2004/11/3 0 14:11 | |
| 3 | BRS | L3 | 0 | L1 and (high\$2 near3 (charge adj1 state\$2)) | US- PGPUB ; USPAT | 2004/11/3 0 14:06 | |
| 4 | BRS | L4 | 0 | L2 and ((laser adj2 (desorb\$5 or desorp\$5)) with (high\$2 near3 (charge adj1 state\$2))) | US- PGPUB ; USPAT | 2004/11/3 0 14:24 | |
| 5 | BRS | L5 | 2573 | (436/63,174).cc1s. | US- PGPUB ; USPAT | 2004/11/3 0 14:12 | |
| 6 | BRS | L6 | 4981 | L2 or L5 | US- PGPUB ; USPAT | 2004/11/3 0 14:12 | |
| 7 | BRS | L7 | 610 | L6 and (laser adj2 (desorb\$5 or desorp\$5)) | US- PGPUB ; USPAT | 2004/11/3 0 14:12 | |
| 8 | BRS | L8 | 38 | L2 and (high\$2 near3 (charge adj1 state\$2)) | US- PGPUB ; USPAT | 2004/11/3 0 14:13 | |
| 9 | BRS | L9 | 42232 1 | L6 band (high\$2 near3 (charge adj1 state\$2)) | US- PGPUB ; USPAT | 2004/11/3 0 14:13 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|--|----------------------------|----------------------|----------|
| 10 | BRS | L10 | 38 | L6 and (high\$2 near3 (charge adj1 state\$2)) | US- PGPUB ; USPAT | 2004/11/3 0 14:13 | |
| 11 | BRS | L11 | 14 | L10 and L7 | US- PGPUB ; USPAT | 2004/11/3 0 14:18 | |
| 12 | BRS | L12 | 1 | L11 and ((IR or (infra adj1 red))) with laser\$3) | US- PGPUB ; USPAT | 2004/11/3 0 14:25 | |
| 13 | BRS | L13 | 13 | L11 not L12 | US- PGPUB ; USPAT | 2004/11/3 0 14:18 | |
| 14 | BRS | L14 | 0 | L11 and ((off adj1 resonance) with (mid adj1 (IR or (infra adj1 red)))) | US- PGPUB ; USPAT | 2004/11/3 0 14:24 | |
| 15 | BRS | L15 | 0 | L8 and ((off adj1 resonance) with (mid adj1 (IR or (infra adj1 red)))) | US- PGPUB ; USPAT | 2004/11/3 0 14:24 | |
| 16 | BRS | L16 | 0 | L7 and ((off adj1 resonance) with (mid adj1 (IR or (infra adj1 red)))) | US- PGPUB ; USPAT | 2004/11/3 0 14:26 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|--|--|----------------------|----------|
| 17 | BRS | L17 | 24 | ((laser adj2 (desorb\$5 or desorp\$5)) and (high\$2 near3 (charge adj1 state\$2))) | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:30 | |
| 18 | BRS | L18 | 1 | L17 and ((IR or (infra adj1 red)) with laser\$3) | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:32 | |
| 19 | BRS | L19 | 0 | L17 and ((off adj1 resonance) with (mid adj1 (IR or (infra adj1 red)))) | US-PGPUB ; USPAT | 2004/11/3 0 14:32 | |
| 20 | BRS | L20 | 1 | L17 and (off adj1 resonance) | US-PGPUB ; USPAT | 2004/11/3 0 14:27 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|---|--|------------------|----------|
| 21 | BRS | L21 | 183 | (laser adj2 (desorb\$5 or desorp\$5)) and (multipl\$5 near3 charge\$2 near2 ion\$2) | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/30 14:49 | |
| 22 | BRS | L23 | 0 | L22 and ((off adj1 resonance) with (mid adj1 (IR or (infra adj1 red)))) | US-PGPUB ; USPAT | 2004/11/30 14:48 | |
| 23 | BRS | L22 | 33 | L21 and ((IR or (infra adj1 red)) with laser\$3) | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/30 14:33 | |
| 24 | BRS | L24 | 32 | L22 not L17 | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/30 14:43 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|-----------------------------------|--|----------------------|----------|
| 25 | BRS | L25 | 4 | "6451616".pn. or "5118937".pn. | US- PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:43 | |
| 26 | BRS | L26 | 1 | L25 and (off adj1 resonan\$3) | US- PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:59 | |
| 27 | BRS | L27 | 0 | L1 and (IR adj1 wavelength) | US- PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:54 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|--|--|----------------------|----------|
| 28 | BRS | L28 | 0 | L1 and (infrared adj1 wavelength) | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:48 | |
| 29 | BRS | L29 | 0 | L1 and ((infra adj1 red) near3 laser\$2) | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:58 | |
| 30 | BRS | L30 | 1 | L1 and (multipl\$5 near3 charge\$2 near2 ion\$2) | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:53 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|--|--|----------------------|----------|
| 31 | BRS | L31 | 0 | L1 and (((infra adj1 red) or IR) with (multipl\$5 near3 charge\$2 near2 ion\$2)) | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:51 | |
| 32 | BRS | L32 | 4 | "5719060".pn. or "4920264".pn. or "5062935".pn. or "4988879".pn. | US-PGPUB ; USPAT | 2004/11/3 0 14:53 | |
| 33 | BRS | L33 | 0 | L32 and (multipl\$5 near3 charge\$2 near2 ion\$2) | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:58 | |
| 34 | BRS | L34 | 0 | L32 and (((infra adj1 red) near3 laser\$2) | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:54 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|---|--|----------------------|----------|
| 35 | BRS | L35 | 0 | L32 and (IR adj1 wavelength) | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:57 | |
| 36 | BRS | L36 | 2 | "20030207460".pn. | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:57 | |
| 37 | BRS | L37 | 1 | "20030207460".pn. | US-PGPUB ; USPAT | 2004/11/3 0 14:57 | |
| 38 | BRS | L38 | 0 | L37 and (multipl\$5 near3 charge\$2 near2 ion\$2) | US-PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:58 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|---|--|----------------------|----------|
| 39 | BRS | L39 | 0 | L37 and ((infra adj1 red) near3 (wavelength or laser\$2)) | US- PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 14:59 | |
| 40 | BRS | L40 | 0 | L37 and (off adj1 resonan\$3) | US- PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 15:22 | |
| 41 | BRS | L41 | 8 | L22 and (off adj1 resonan\$3) | US- PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 15:32 | |

| | Type | L # | Hits | Search Text | DBs | Time Stamp | Comments |
|----|------|-----|------|--|--|----------------------|----------|
| 42 | BRS | L42 | 1 | ("6342393".pn.) and (off adj1 resonan\$3) | US- PGPUB ; USPAT ; USOCR ; EPO; JPO; DERWE NT; IBM_T DB | 2004/11/3 0 15:32 | |